CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SR/W.No.14/WMM/AIV/2016-17 18.03.2017

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of Work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
Date of Testing	:	18.03.2017

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	388	390	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	304	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	21.91	22.05	21.98

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

Note:

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Civil-tech Consultants & Engineers
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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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T-2377

Job No.: CTCE/BBMP/SR/W.No.14/CSR-02/277d/CEMENT/2016-17 Date: 21.02.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of Work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	Cement
Sample Received on	:	20.02.2017
Period of Testing	:	20.02.2017 to 21.02.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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Technical Manager

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T-2377

Job No.: CTCE/BBMP/SR/W.No.14/CSR-02/277d/SAND-Gradation/2016-17 21.02.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of Work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	20.02.2017
Date of Testing	:	21.02.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.70	90-100	90-100	90-100	95-100
2.36	78.70	60-95	75-100	85-100	95-100
1.18	56.70	30-70	55-90	75-100	90-100
600 Micron	26.70	15-34	35-59	60-79	80-100
300 Micron	11.70	5-20	8-30	12-40	15-50
150 Micron	5.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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T-2377

Job No.: CTCE/BBMP/SR/W.No.14/CSR-02/277d/AGG/GR/2016-17 21.02.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of Work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	20.02.2017
Date of Testing	:	21.02.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.94	95-100	85-100
20	36.84	30-70	0-20
10	16.44	10-35	0-5
4.75	3.94	0-5	-

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* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/SR/W.No.14/AC/Steel/2016-17

22.02.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	22.02.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	512	13.05	O.K	O.K

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Job No.: CTCE/BBMP/SR/W.No.14/AC/Steel/2016-17 22.02.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Sreeramreddy,** #62, Behind Widia Ashok Nagara, Nagasandra (P), Bangalore.
* Name of work	:	Improvements to Roads and Drain at 4th and 5th cross MHR Layout in Bagalagunte Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/759/2016-17 Dated: 20.02.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	22.02.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	515	13.25	O.K	O.K

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